

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129
Total params: 65,793		
Trainable params: 65,793		
Non-trainable params: 0		

Train on 90000 samples, validate on 15000 samples

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Epoch 1/20
90000/90000 [=====] - 162s 2ms/step - loss: 0.3537 - acc: 0.8447 - val_loss: 0.3381 - val_acc: 0.8527
Epoch 2/20
90000/90000 [=====] - 159s 2ms/step - loss: 0.3225 - acc: 0.8602 - val_loss: 0.3185 - val_acc: 0.8617
Epoch 3/20
90000/90000 [=====] - 155s 2ms/step - loss: 0.3128 - acc: 0.8655 - val_loss: 0.3082 - val_acc: 0.8655
Epoch 4/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.3044 - acc: 0.8694 - val_loss: 0.3105 - val_acc: 0.8659
Epoch 5/20
90000/90000 [=====] - 159s 2ms/step - loss: 0.2982 - acc: 0.8722 - val_loss: 0.2992 - val_acc: 0.8721
Epoch 6/20
90000/90000 [=====] - 158s 2ms/step - loss: 0.2924 - acc: 0.8762 - val_loss: 0.2963 - val_acc: 0.8740
Epoch 7/20
90000/90000 [=====] - 157s 2ms/step - loss: 0.2865 - acc: 0.8777 - val_loss: 0.2944 - val_acc: 0.8740
Epoch 8/20
90000/90000 [=====] - 167s 2ms/step - loss: 0.2826 - acc: 0.8813 - val_loss: 0.2916 - val_acc: 0.8769
Epoch 9/20
90000/90000 [=====] - 154s 2ms/step - loss: 0.2770 - acc: 0.8831 - val_loss: 0.2841 - val_acc: 0.8799
Epoch 10/20
90000/90000 [=====] - 160s 2ms/step - loss: 0.2714 - acc: 0.8864 - val_loss: 0.2847 - val_acc: 0.8793
Epoch 11/20
90000/90000 [=====] - 161s 2ms/step - loss: 0.2671 - acc: 0.8881 - val_loss: 0.2782 - val_acc: 0.8811
Epoch 12/20
90000/90000 [=====] - 159s 2ms/step - loss: 0.2631 - acc: 0.8901 - val_loss: 0.2752 - val_acc: 0.8829
Epoch 13/20
90000/90000 [=====] - 165s 2ms/step - loss: 0.2579 - acc: 0.8936 - val_loss: 0.2745 - val_acc: 0.8840
Epoch 14/20
90000/90000 [=====] - 313s 3ms/step - loss: 0.2553 - acc: 0.8937 - val_loss: 0.2716 - val_acc: 0.8869
Epoch 15/20
90000/90000 [=====] - 317s 4ms/step - loss: 0.2500 - acc: 0.8967 - val_loss: 0.2731 - val_acc: 0.8874
Epoch 16/20
50/90000 [.....] - ETA: 4:45 - loss: 0.1328 - acc: 0.9400C:\Users\shaggyday\AppData\Local\Programs\Python\Python37\lib\site-packages\keras\callbacks.py:122: UserWarning: Method on_batch_end() is slow compared to the batch update (0.162155). Check your callbacks.
% delta_t_median)
90000/90000 [=====] - 311s 3ms/step - loss: 0.2449 - acc: 0.8991 - val_loss: 0.2689 - val_acc: 0.8884
Epoch 17/20
90000/90000 [=====] - 315s 4ms/step - loss: 0.2423 - acc: 0.9004 - val_loss: 0.2644 - val_acc: 0.8911
Epoch 18/20
90000/90000 [=====] - 314s 3ms/step - loss: 0.2374 - acc: 0.9033 - val_loss: 0.2670 - val_acc: 0.8903
Epoch 19/20
90000/90000 [=====] - 312s 3ms/step - loss: 0.2347 - acc: 0.9033 - val_loss: 0.2572 - val_acc: 0.8939
Epoch 20/20
90000/90000 [=====] - 311s 3ms/step - loss: 0.2309 - acc: 0.9057 - val_loss: 0.2601 - val_acc: 0.8944
45000/45000 [=====] - 125s 3ms/step
```

Test score: 0.25628240336577096

Test accuracy: 0.895

